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Part 3300 Revised January 2025

Factor XIIIa Control Slides - Technical Memo

CONTROL SLIDES: Part 3300A Part 3300B 10 Slide/Set 98 Slide/Set

PRODUCT SPECIFICATIONS:

Tissue: Positive staining spleen.

Fixation: Formalin 10%, Phosphate Buffered (Part 1090).

Section/Glass: Paraffin sections cut at 4 microns on Superfrost™ Plus slides. Quality Control Stain: Factor XIIIa quality control stained slide(s) included.

Reactivity: Guaranteed product specific reactivity for one year from date of receipt. Revalidate after one year to verify continued reactivity.

Storage: 15-30°C in a light deprived and humidity controlled environment. Intended Use: To verify histological techniques and reagent reactivity.

Before using unstained control slides, review the enclosed stained slide(s) to ensure that this tissue source is acceptable for testing needs.

APPLICATION:

Newcomer Supply Factor XIIIa (fibrin stabilizing factor) Control Slides are for the positive immunohistochemical staining of Factor XIIIa, a blood coagulation enzyme that crosslinks fibrin. Factor XIIIa is used as a marker for fibro-histiocytic proliferations, dermal dendritic cells and to differentiate dermatofibroma from dermatofibrosarcoma.

NEWCOMER SUPPLY VALIDATION PROCEDURE:

- Heat dry sections in oven according to your laboratory protocol. 1.
- Deparaffinize sections thoroughly in three changes of xylene, 3 minutes each. Hydrate through two changes each of 100% and 95% ethyl alcohols, 10 dips each. Wash well with distilled water.
 - See Procedure Note #1.
- Proceed with an epitope/antigen retrieval technique approved for use in your laboratory.
- 4 Rinse in distilled water; tap off excess water.
- Circle sections with Pap Pen Liquid Blocker (Part 6505, 6506 or 6507) to reduce reagent usage and ensure tissue coverage.
- Block endogenous peroxidase with freshly made 3% Hydrogen 6. Peroxide. Incubate for 5 minutes.
 - See Procedure Note #2. a.
- Wash slides gently in distilled water. Rinse in two changes of Tris Buffered Saline.
 - See Procedure Note #3.
- Tap off excess buffer; apply Factor XIIIa primary antibody. Incubate at room temperature for 30 minutes.
- Rinse slides in two changes of buffer.
- Tap off excess buffer; apply Amplifier. Incubate for 10 minutes.
- Rinse slides in two changes of buffer.
- Tap off excess buffer; apply HRP Polymer. Incubate for 10 minutes. 12.
- Rinse slides in two changes of buffer.
- Prepare required quantity of DAB substrate/chromogen.
- Tap off excess buffer; apply DAB. Incubate for 5 minutes.
- Rinse slides in four changes of distilled water.
- Counterstain with Hematoxylin Stain, Gill I (Part 1180); 1-10 dips.
- Rinse slides in warm tap water to blue sections.
- Dehydrate in two changes each of 95% and 100% ethyl alcohol. Clear in three changes of xylene, 10 dips each; coverslip with compatible mounting medium.

RESULTS:

Factor XIIIa positive expression Brown cytoplasmic staining

PROCEDURE NOTES:

- Do not allow sections to dry out at any point during procedure.
- Dilute Hydrogen Peroxide 30%, Aqueous (Part 1206) with distilled water to a 3% (1/10) solution prior to use.
- 3. Dilute Tris Buffered Saline 0.05M, pH 7.6, 10X (Part 140304) with distilled water to a 1/10 solution prior to use for all buffer rinses.
- Cell Marque Factor XIIIa (EP3372) is the primary antibody used along with Cell Marque detection and ancillary reagents.
- If using a xylene substitute, follow manufacturer's recommendation for deparaffinization and clearing steps.

REFERENCES:

- Cell Marque Factor XIIIa Antibody datasheet.
- Modifications developed by Newcomer Supply Laboratory.

